

# **Corona del Mar Water Transmission Main Pipeline Improvements Award of Contract (C-4603)**



Corona del Mar Residents & Businesses  
August 21, 2013  
Project Overview

# Background

- Water Master Plan identified the need for new water transmission main from Big Canyon Reservoir to Corona del Mar area.
- Reasons for new pipeline:
  - Improve supply pressure
  - Increase fire flows
  - Provide pipeline redundancy
  - Improve operation and service reliability

# Bid Results

- Opened bids on January 10, 2013 at 10:00 AM
- Total of 11 bids received
- Lowest four Bids as follows:
  - T.E. Roberts, Inc. \$4,402,750.00
  - Vido Artukovich and Sons, Inc. \$4,624,500.00
  - CCL Contracting, Inc. \$4,877,350.00
  - GRFCO, Inc. \$4,938,000.00
- Engineers Est. (Psomas and Assoc.) \$4,373,000.00

# Pipeline alignment

## Corona del Mar Transmission Main



### What

- New Water Transmission Line
- 5,100 Feet

### Why

- Improve supply pressure
- Increase fire flows
- Backup pipeline
- Provides an extra emergency water line in case the primary line were to be damaged
- Improve operation and service reliability

### Budget

- \$4.4 million

### Time

- 1.5 years

 CONSTRUCTION COMPLETED TO DATE

### PHASE 1

July through September 2013  
and May 2014

### PHASE 2

September through December 2013  
and March through April 2014

### PHASE 3

December 2013 through March 2014

# Pipeline Alignment

- 30-inch transmission main:
  - Pacific View Drive: POC to San Miguel Drive
  - San Miguel Drive: Pacific View Dr. to MacArthur Blvd.
  - MacArthur Blvd.: San Miguel Dr. to East Coast Hwy.
- 24-inch transmission main:
  - East Coast Hwy.: MacArthur Blvd. to Fernleaf Ave.
  - Carnation Ave.: East Coast Hwy. to Bayside Dr.
  - Jack and Bore under East Coast Hwy. at Carnation Ave.
- 16-inch transmission main:
  - Dahlia Ave.: East Coast Hwy. to 5<sup>th</sup> Ave.
  - 5<sup>th</sup> Ave.: Dahlia Ave. to Fernleaf Ave.
- Relocate Pressure Regulator structure at East Coast Hwy. and Dahlia Ave.



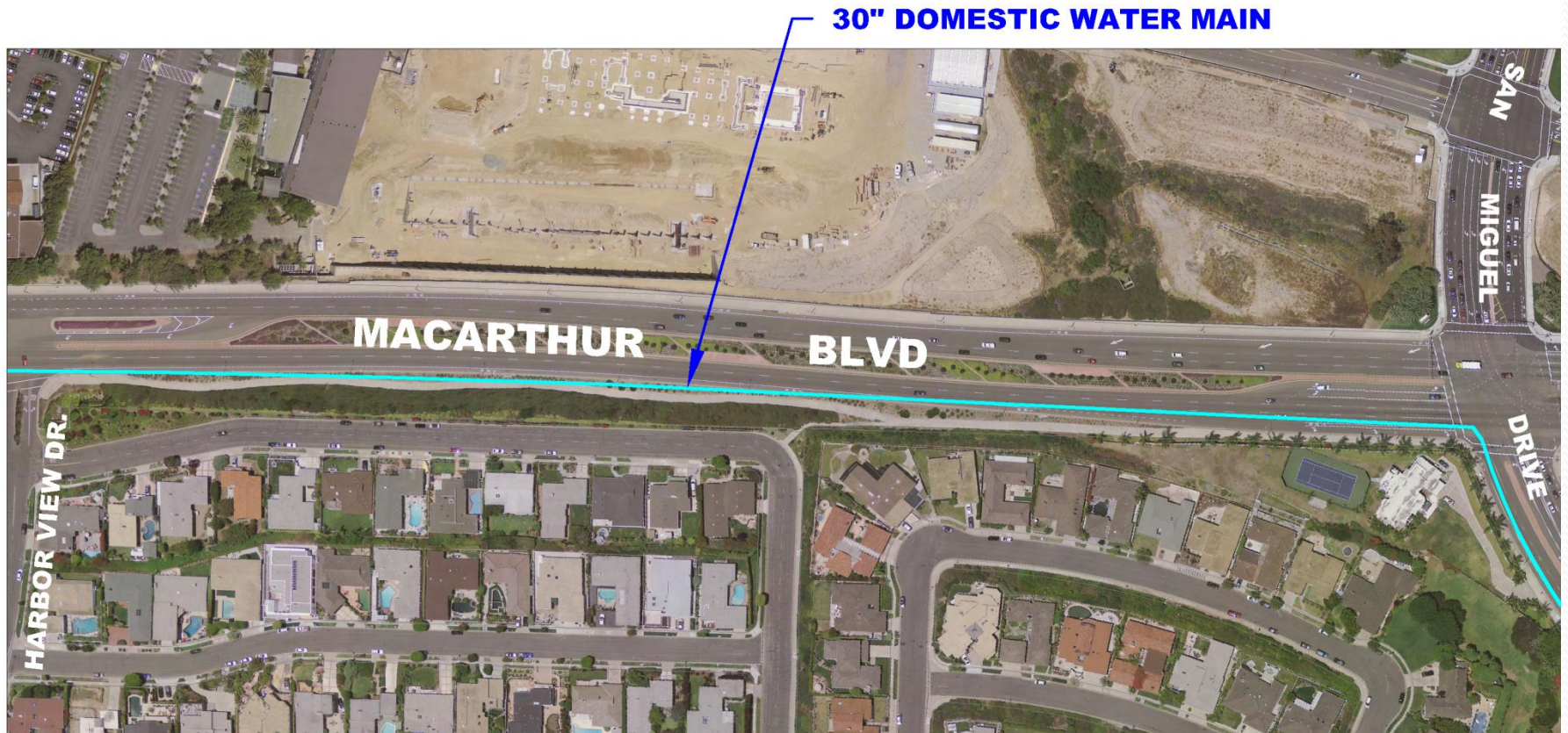
# SAN MIGUEL DRIVE

**30" DOMESTIC WATER MAIN**



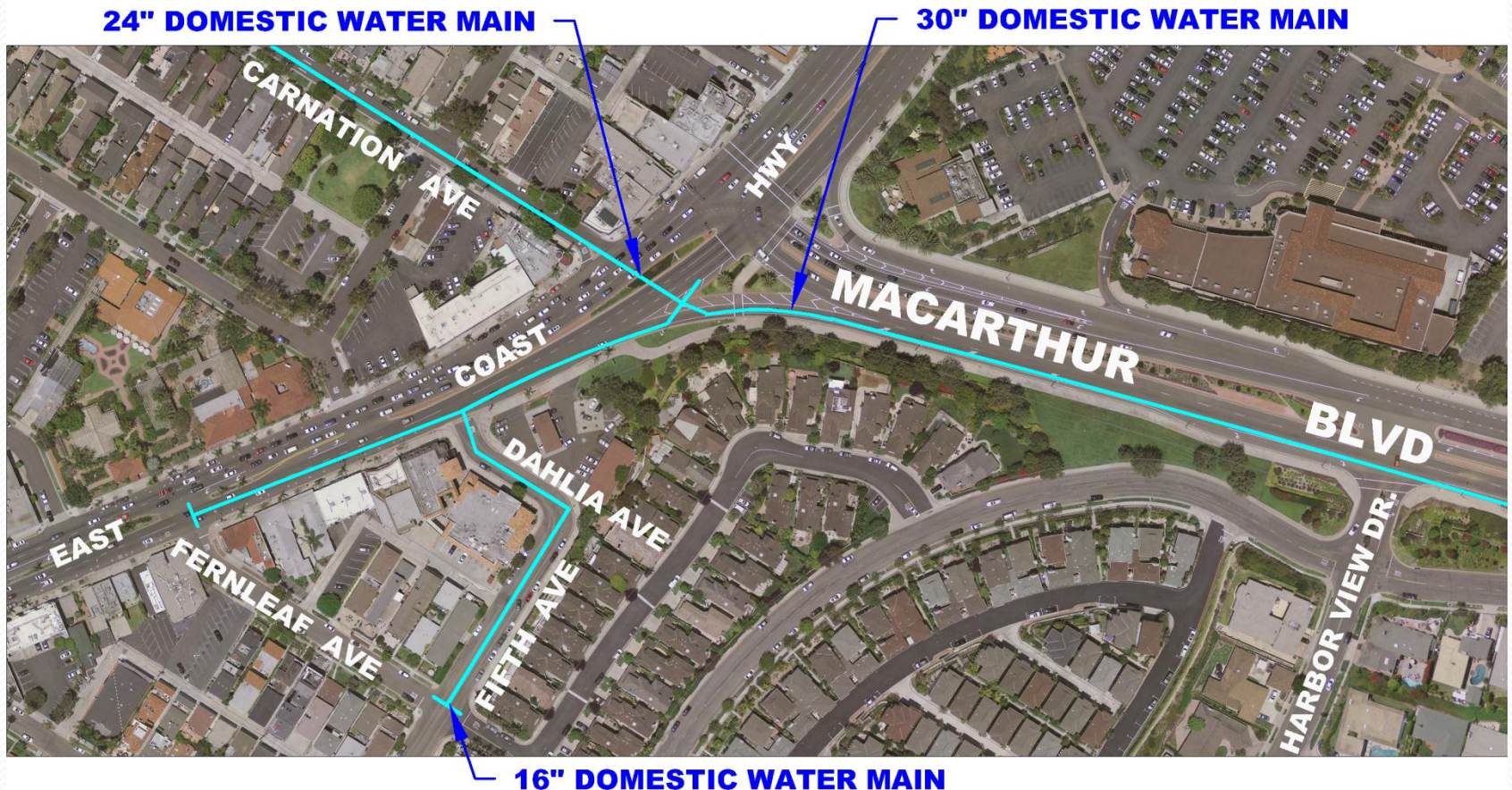


# MACARTHUR BOULEVARD





# MACARTHUR BOULEVARD AND EAST COAST HIGHWAY







# Traffic Flow During Tunneling

- PCH at MacArthur Blvd.
  - Tunneling operation will take approx. 1-week.
  - Northbound Free Right Turn will be closed.
  - First Block of Carnation will be closed.
  - Work hours will be: **7:00 am – 7:00 pm.**
  - **Allows tunneling & first block of Carnation to be completed in approximately 40 days. (September 5<sup>th</sup> through October 15<sup>th</sup>).**



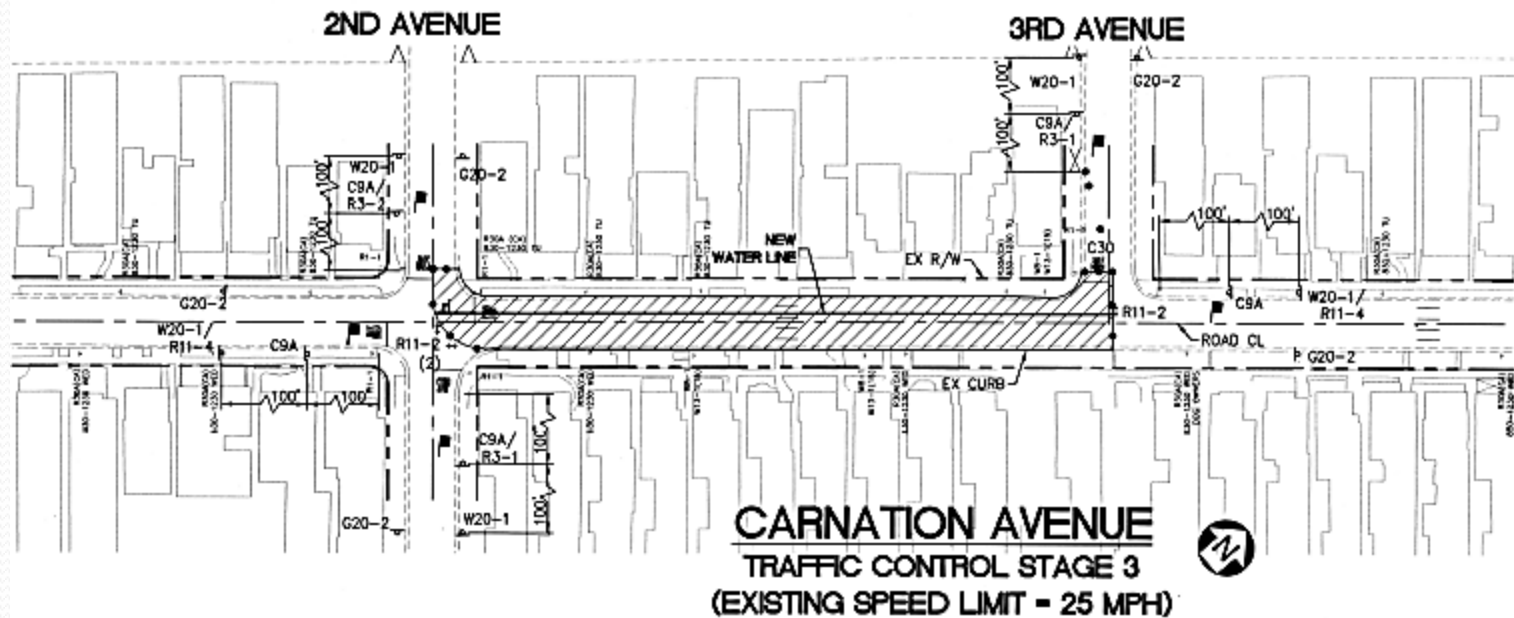
# CARNATION AVENUE

**18" DOMESTIC WATER MAIN**

**24" DOMESTIC WATER MAIN**



# Typical Block Closure CDM



Blocks will be closed one at a time during construction.  
Work will start at on PCH and end at Bayside Dr.



# Trench Preparation





# Potholing Utilities



Start



Finish



# Pipe Placement



# Typical Type of Pipe



Cement and Mortar Lined & Tape Wrapped Steel Pipe (CML&TW)



# Fittings and Connections





# Steel Welds



All welds are inspected photographed and tested for soundness

# Project Schedule

- Award Contract January 22, 2013
- Contractor Preparation/pipe order Jan – May 2013
- Construction Start June 2013
- Construction Complete Summer 2014
- Traffic Handling Plans include construction in multiple stages to avoid disrupting traffic as much as possible.

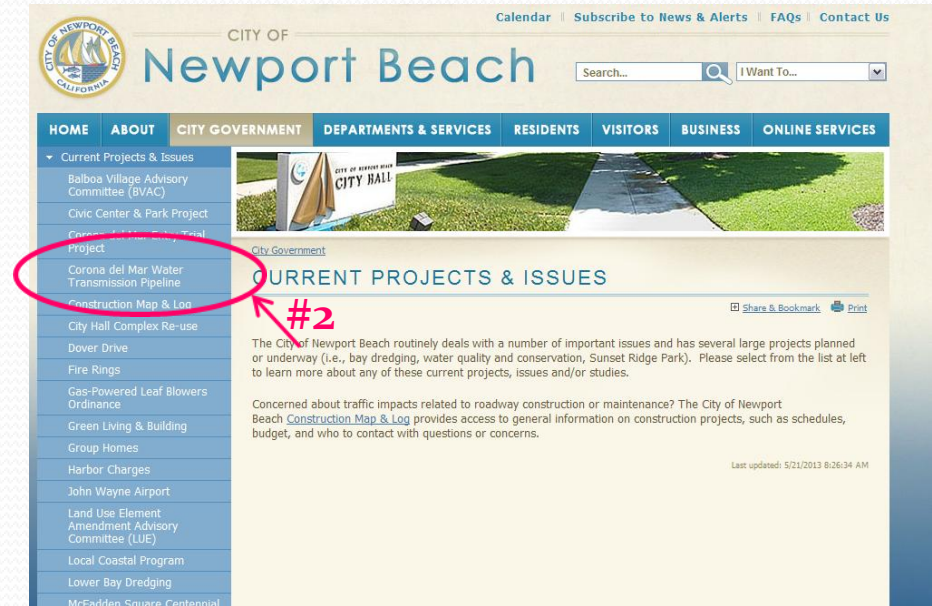
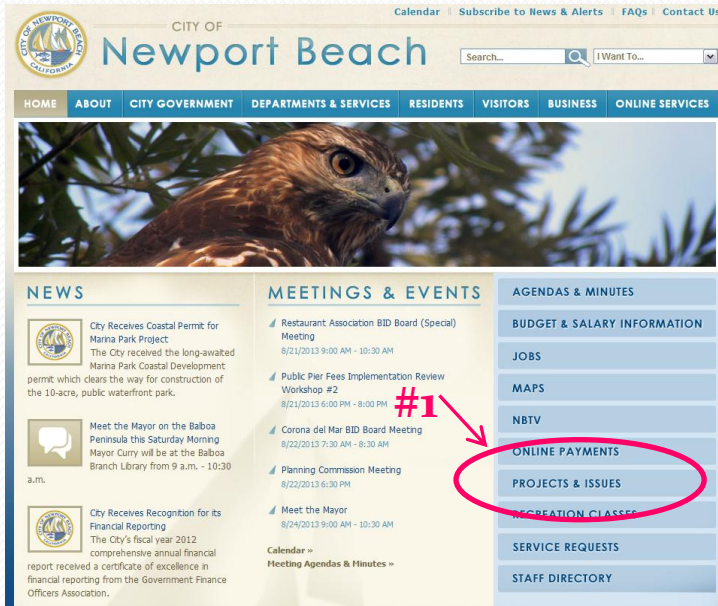


# What's going on here?



How many workers does it take to watch the pipe?

# For future updates.....



- 1<sup>st</sup> go to homepage and click on: Projects and Issues
- 2<sup>nd</sup> go to Corona del Mar Water Transmission Pipeline tab for updates





## **Public Works Department**

**A Well-Engineered Machine**

***Protecting and Providing Quality  
Public Improvements and Services***